



FIG. 1



200

IC is initialized (step 201)
Check for user adjustments (step 202)
Voltage, hot electron and temperature calibration signals are sent to the voltage generators, hot electron sources and heaters (step 203)
Hot electron sensor responses are monitored (step 204)
Hot electron sensor responses are averaged and the averaged result is compared to a predetermined range (step 206)
If the response is out of range, it is corrected in process (step 208)
Temperature sensors are monitored (step 210)
Temperature responses are averaged and the averaged result is compared to a predetermined range (step 216)
If the response is out of range, it is corrected (step 218)
Voltage sensors are monitored (step 220)
Voltage responses are averaged and the averaged result is compared to a predetermined range (step 226)
If the response is out of range, it is corrected (step 228)
Store environmental parameters in memory and repeat (step 240)

FIG.2